DATA ITEM DESCRIPTION

Title: Information Security (INFOSEC) Boundary Configuration Management Plan

Number: DI-SESS-81343A
AMSC Number: 9041
DTIC Applicable: No
Office of Primary Responsibility: NS/I73
Applicable Forms: N/A

Approval Date: 11 Apr 2008
Limitation: N/A
GIDEP Applicable: No

Use/Relationship:

The INFOSEC Boundary (IB) Configuration Management (CM) Plan details the IB configuration control process, configuration management procedures, and review and approval procedures for changes to the security design implementation of the IB. It addresses hardware, firmware, software, testing and documentation at the various levels of trust. The IB CM Plan indicates how the security requirements baseline will be maintained during the operational life of the IB and provides assurance that the security protections are safe from the introduction of improper hardware, firmware, and software during the developmental and operational life of the IB.

This Data Item Description (DID) contains the format and content preparation instructions for the CM data product generated under DoDD 8500.01, Department of Defense Directive - Information Assurance, for all Mission Assurance Category (MAC) I and MAC II Systems.

This DID is applicable to any computer acquisition that calls for an IB Configuration Management Plan as specified by DoDD 8500.01 for all MAC I and MAC II systems.

This DID supersedes DI-CMAN-81343.

Requirements:

1. Reference documents. The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as cited in the current issue of the DODISS at the time of solicitation; or for non DODISS–listed documents, as stated herein.

2. Format: Document an IB Configuration Management Plan as follows:

   a. Cover Sheet. Shall contain Title, Contract Number, Procuring Activity, Contractor Identification, Acquisition Program Name, disclaimers (as provided by the procuring

activity contracting officer), date, version number, security classification and any other appropriate descriptive data.

b. Errata Sheet. Shall contain delimiting cumulative page changes from previous versions.

c. Table of Contents. Shall contain paragraph numbers, paragraph names, and page numbers.

d. List of illustrations, diagrams, charts and figures.

e. Glossary of abbreviations, acronyms, terms, symbols, and notations used, and their definitions.

f. Executive Summary, not to exceed two pages.

g. Introductions.

h. Body of the Plan

i. Attachments.

j. Subjective index

k. Appendixes.

l. Bibliography. List of reference sources and applicable documents.

2.1 Specific Format Instructions.

a. Abbreviations and acronyms shall be defined when first used in the text and shall be placed in the glossary.

b. Pages shall be numbered separately and consecutively using Arabic numerals. Blank pages shall be numbered.

c. Paragraphs shall have a short descriptive title and shall be numbered consecutively using Arabic numerals. Numbering schemes beyond the fourth level (e.g., 4.1.2.5.8) are not permitted.

d. Chapters shall begin on an odd-numbered (right hand) page.

e. Column headings shall be repeated on subsequent pages if tabular material exceeds one page.

f. Fold out pages shall be kept to a minimum.

g. Paper shall be standard 8 ½ x 11 inches, white, with black type. The type font shall be standard 10 pitch pica or courier, 12 pitch elite, or equivalent font. Either blocked text (left and right justified) or ragged right (left justified only) shall be used.

h. At least one inch margins shall be provided all around each page to allow for drilling and binding.

i. Either single – or double-sided printing shall be used. If double-sided, the document shall be printed or typed head-to-head, front-to-back.

j. The specification shall be provided in standard three-ring notebook binders for ease of maintenance.

3. Content:

The IB CM Plan shall contain the following items:

a. Description of the methods available to certify that only the approved, intended changes are made in the code that will be used as the new version of the IB.

b. Identification of methods that ensure that any change in the approved design documentation is developed under configuration control.

c. Description of how the configuration management system ensures consistent mapping among all documentation and code associated with the current version of the IB.

d. Description of the auditing methods which will be used by the configuration management system to maintain a history of all changes made to the IB.

e. Description of the tools that are provided for generation of a new version of the IB from source code.

f. Description of the tools that are provided for comparing a newly generated version with the previous IB version in order to ascertain that only the intended changes have been made in the code that will actually be used as the new version of the IB.

3.1 IB products and their equivalent systems with medium-high and high robustness. The following shall be included in this section.

a. Description of the tools that ensure that only approved changes are made over the life cycle. These tools should provide for comparing a newly generated version of the IB with the previous IB version, and include the steps to

be taken if the comparison indicates non-approved changes to the IB.

b. Description of the configuration controls in place, during the development and maintenance of the IB, to maintain changes to the descriptive top-level specification, other design data, implementation documentation, source code, and running versions of the object code, and test fixtures and documentation.

3.2 IB products and their equivalent systems with high robustness. The following shall be included in this section:

a. Description of the tools, maintained under strict configuration control, for comparing a newly generated version with the previous IB version in order to ascertain that only the intended changes have been made in the code that will actually be used as the new version of the IB.

b. Description of the procedures in place, during the design, development and maintenance of the IB, to maintain changes to all security relevant hardware firmware, and software. These procedures should maintain control of changes to the formal model, the descriptive and formal top-level specifications, other design data, implementation documentation, source language, and running versions of the object code, and test fixtures and documentation.

c. Description of the technical, physical, and procedural safeguards which are used to protect for unauthorized modification or destruction of the master copy or copies of all material used to generate the IB.

d. Description of the procedures for assuring that the IB software, firmware, and hardware updates distributed are exactly as specified by the master copies.

e. Description of the procedures to maintain any configuration management tools under strict configuration control.

4. END OF DI-SESS-81343A